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1	127	(706/12).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/15 16:44
2	153	(706/14).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/15 16:44
-	1449	simulat$4 near anneal$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/02 12:24
-	1712	hill near climb$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/02 12:25
-	3522	genetic near2 (program$6 or algorithm$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/02 12:26
-	57	(simulat$4 near anneal$4) and (hill near climb$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/02 12:26
-	30	(genetic near2 (program$6 or algorithm$4)) and ((simulat$4 near anneal$4) and (hill near climb$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/02 12:27
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-	145	(706/13).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/15 16:43

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1 **Automatic synthesis of both the topology and parameters for a robust controller for a nonminimal phase plant and a three-lag plant by means of genetic programming**
Koza, J.R.; Keane, M.A.; Yu, J.; Bennett, F.H., III.; Mydlowec, W.; Stiffelman, O.
Decision and Control, 1999. Proceedings of the 38th IEEE Conference on , Volume: 5 , 1999
Page(s): 5292 -5300 vol.5

[Abstract] [PDF Full-Text (704 KB)] **CNF**

2 **Automatic creation of both the topology and parameters for a robust controller by means of genetic programming**
Koza, J.R.; Keane, M.A.; Bennett, F.I., III; Jessen Yu; Mydlowec, W.; Stiffelman, O.
Intelligent Control/Intelligent Systems and Semiotics, 1999. Proceedings of the 1999 IEEE International Symposium on , 1999
Page(s): 344 -352

[Abstract] [PDF Full-Text (692 KB)] **CNF**

Search Results

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Search within Results

1 A survey of graph layout problems 100%
Josep Díaz , Jordi Petit , Maria Serna
ACM Computing Surveys (CSUR) September 2002
Volume 34 Issue 3
Graph layout problems are a particular class of combinatorial optimization problems whose goal is to find a linear layout of an input graph in such way that a certain objective cost is optimized. This survey considers their motivation, complexity, approximation properties, upper and lower bounds, heuristics and probabilistic analysis on random graphs. The result is a complete view of the current state of the art with respect to layout problems from an algorithmic point of view.

2 A framework for human-computer interaction in directed graph drawing 100%
Hugo A. D. do Nascimento
Australian symposium on Information visualisation - Volume 9 December 2001
This paper describes some studies in Human-Computer Interaction for Directed Graph Drawing. We have developed a system where users can help some standard graph drawing algorithms to produce nice drawings of a graph according to a set of aesthetic criteria. The system follows a general framework for interaction with optimisation processes that can be applied to many optimisation problems. Some discussion about the framework and possible improvements is presented.

3 Simulation education: Interactive Web-based animations for teaching and learning 100%
Michael Syrjakow , Joerg Berdux , Helena Szczerbicka
Proceedings of the 32nd conference on Winter simulation December 2000
Web-based study resources can be viewed as a basic requirement in order to remain a competitive player on a more and more globalised educational market. For that reason it is getting increasingly important for universities to supplement offered lectures with additional Web-based learning material. In this paper we focus on interactive multimedia elements like computer animations and simulations, which can be used by students for individual experimentation. Such supplementary material represents ...

4 Advanced tutorials: Simulation optimization: a survey of simulation optimization techniques and procedures 100%
James R. Swisher , Paul D. Hyden , Sheldon H. Jacobson , Lee W. Schruben
Proceedings of the 32nd conference on Winter simulation December 2000
Discrete-event simulation optimization is a problem of significant interest to practitioners interested in extracting useful information about an actual (or yet to be designed) system that can be modeled using discrete-event simulation. This paper presents a brief survey of the literature on discrete-event simulation optimization over the past decade (1988 to the present). Swisher et al. (2000) provides a more comprehensive review of this topic while Jacobson and Schruben (1989) covers the liter ...

5 Outlier detection for high dimensional data 100%
Charu C. Aggarwal , Philip S. Yu
ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data May 2001
Volume 30 Issue 2
The outlier detection problem has important applications in the field of fraud detection, network robustness analysis, and intrusion detection. Most such applications are high dimensional domains in which the data can contain hundreds of dimensions. Many recent algorithms use concepts of proximity in order to find outliers based on their relationship to the rest of the data. However, in high dimensional space, the data is sparse and the notion of proximity fails to retain its meaningfulness. ...

6 A multi-neural-network learning for lot sizing and sequencing on a flow-shop 100%
In Lee , Jatinder N. D. Gupta , Amar D. Amar
Proceedings of the 2001 ACM symposium on Applied computing March 2001

7 Hybrid global/local search strategies for dynamic voltage scaling in embedded multiprocessors 100%
Neal K. Bambha , Shuvra S. Bhattacharyya , Jürgen Teich , Eckart Zitzler
Proceedings of the ninth international symposium on Hardware/software codesign April 2001
In this paper, we explore a hybrid global/local search optimization framework for dynamic voltage scaling in embedded multiprocessor systems. The problem is to find, for a multiprocessor system in which the processors are capable of dynamically varying their core voltages, the optimum voltage levels for all the tasks in order to minimize the average power consumption under a given performance

constraint. An effective local search approach for static voltage scaling based on the concept of a < ...

8 An empirical study of non-binary genetic algorithm-based neural approaches for classification 100%
Parag C. Pendharkar , James A. Rodger
Proceeding of the 20th international conference on Information Systems January 1999

9 A memetic algorithm to schedule planned maintenance for the national grid 100%
E. K. Burke , A. J. Smith
Journal of Experimental Algorithmics (JEA) July 1999
Volume 4

10 Hill climbing algorithms for content-based retrieval of similar configurations 100%
Dimitris Papadias
Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval July 2000

The retrieval of stored images matching an input configuration is an important form of content-based retrieval. Exhaustive processing (i.e., retrieval of the best solutions) of configuration similarity queries is, in general, exponential and fast search for sub-optimal solutions is the only way to deal with the vast (and ever increasing) amounts of multimedia information in several real-time applications. In this paper we discuss the utilization of hill climbing heuristics that can provide ve ...

11 Automatic aircraft conflict resolution using genetic algorithms 100%
Nicolas Durand , Jean-Marc Alliot , Joseph Noailles
Proceedings of the 1996 ACM symposium on Applied Computing February 1996

12 The selfish gene algorithm: a new evolutionary optimization strategy 100%
Fulvio Corno , Matteo Sonza Reorda , Giovanni Squillero
Proceedings of the 1998 ACM symposium on Applied Computing February 1998

13 Keep-best reproduction: a selection strategy for genetic algorithms 100%
Kay Wiese , Scott D. Goodwin
Proceedings of the 1998 ACM symposium on Applied Computing February 1998

14 Book reviews 100%
intelligence December 1999
Volume 10 Issue 4

15 Content-based retrieval using heuristic search 100%
Dimitris Papadias , Marios Mantzourogiannis , Panos Kalnis , Nikos Mamoulis , Ishfaq Ahmad
Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999

16 MAELSTROM: efficient simulation-based synthesis for custom analog cells 100%
Michael Krasnicki , Rodney Phelps , Rob A. Rutenbar , L. Richard Carley
Proceedings of the 36th ACM/IEEE conference on Design automation conference June 1999

17 Reducing cross-coupling among interconnect wires in deep-submicron datapath design 100%
Joon-Seo Yim , Chong-Min Kyung
Proceedings of the 36th ACM/IEEE conference on Design automation conference June 1999

18 Module placement for analog layout using the sequence-pair representation 100%
Florin Balasa , Koen Lampaert
Proceedings of the 36th ACM/IEEE conference on Design automation conference June 1999

19 Distributing collective adaptation via message passing 100%
Thomas Haynes
Proceedings of the 1999 ACM symposium on Applied computing February 1999

20 Distributed collective adaptation applied to a hard combinatorial optimization problem 100%
Thomas Haynes
Proceedings of the 1999 ACM symposium on Applied computing February 1999

Search Results

Search Results for: **[((simulating <near/2> annealing)and (hill <near/2> climbing)) and(genetic <near/2> algorithm)]**
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Results 21 - 37 of 37 short listing

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21 Infected genes evolutionary algorithm 100%
Rui Tavares , António Teófilo , Paulo Silva , Agostinho C. Rosa
Proceedings of the 1999 ACM symposium on Applied computing February 1999

22 GENOCOP: a genetic algorithm for numerical optimization problems with linear constraints 100%
Z. Michalewicz , C. Z. Janikow
Communications of the ACM December 1996

23 Automated program flaw finding using simulated annealing 100%
Nigel Tracey , John Clark , Keith Mander
ACM SIGSOFT Software Engineering Notes , Proceedings of ACM SIGSOFT international symposium on Software testing and analysis March 1998
Volume 23 Issue 2

24 Simulation optimization: methods and applications 100%
Yolanda Carson , Anu Maria
Proceedings of the 29th conference on Winter simulation December 1997

25 A combination of genetic algorithm and simulated evolution techniques for clustering 100%
Jay Bhuyan
Proceedings of the 1995 ACM 23rd annual conference on Computer science February 1995

26 Application of genetic algorithms to the algebraic simplification of tensor polynomials 100%
M. Kavian , R. G. McLenaghan , K. O. Geddes
Proceedings of the 1997 international symposium on Symbolic and algebraic computation July 1997

27 Recent developments in high-level synthesis 100%
Youn-Long Lin
ACM Transactions on Design Automation of Electronic Systems (TODAES) January 1997
Volume 2 Issue 1
We survey recent developments in high level synthesis technology for VLSI design. The need for higher-level design automation tools are discussed first. We then describe some basic techniques for various subtasks of high-level synthesis. Techniques that have been proposed in the past few years (since 1994) for various subtasks of high-level synthesis are surveyed. We also survey some new synthesis objectives including testability, power efficiency, and reliability.

28 Generation of transfer functions with stochastic search techniques 100%
Taosong He , Lichan Hong , Arie Kaufman , Hanspeter Pfister
Proceedings of the conference on Visualization '96 October 1996

29 Hybrid floorplanning based on partial clustering and module restructuring 100%
Takayuki Yamanouchi , Kazuo Tamakashi , Takashi Kambe
Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design January 1997

30 Improving conservative VHDL simulation performance by reduction of feedback 100%
Joel F. Hurford , Thomas C. Hartrum
ACM SIGSIM Simulation Digest , Proceedings of the tenth workshop on Parallel and distributed simulation July 1996
Volume 26 Issue 1

31 On genetic algorithms 100%
Eric B. Baum , Dan Boneh , Charles Garrett
Proceedings of the eighth annual conference on Computational learning theory July 1995

32 A macro-cell global router based on two genetic algorithms 100%
Henrik Esbensen
Proceedings of the conference on European design automation conference September 1994

33 A loosely coupled parallel algorithm for standard cell placement 100%
Wern-Jieh Sun , Carl Sechen
1994 IEEE/ACM international conference on Computer-aided design November 1994
We present a loosely coupled parallel algorithm for the placement of standard cell integrated circuits. Our algorithm is a derivative of simulated annealing. The implementation of our algorithm is targeted towards networks of UNIX workstations. This is the very first reported parallel algorithm for standard cell placement which yields as good or better placement results than its serial version. In addition, it is the first parallel placement algorithm reported which offers nearly linear spe ...

34 Minimal cost set covering using probabilistic methods 100%
Sandip Sen
Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice March 1993

35 An object-oriented environment for specification and concurrent execution of genetic algorithms 100%
L. Lemarchand , A. Plantec , B. Pottier , S. Zanati
ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum) December 1992
Volume 4 Issue 2
Genetic algorithms (GA) mimic natural reproduction to search for complex problem solutions. Their principles are shortly explained. A point of interest is the regular and repetititve structure of computation involving communication, data exchanges, and control phases. Interaction with presentation and analysis tools is also a requirement. This make sense for the definition of a general framework allowing fast building of parallel applications in an object-oriented system. A GA workbench is ...

36 A parallel genetic algorithm for the graph partitioning problem 100%
E.-G. Talbi , P. Bessière
Proceedings of the 5th international conference on Supercomputing June 1991

37 ESP: a new standard cell placement package using simulated evolution 99%
R.-M. Kling , P. Banerjee
24th ACM/IEEE conference proceedings on Design automation conference October 1987
ESP (Evolution-based Standard cell Placement) is a new program package designed to perform standard cell placement and includes macro-block placement capabilities. It uses the new heuristic method of simulating an evolutionary process in order to minimize the cell interconnection wire length. While achieving results comparable to or better than the popular Simulated Annealing algorithm, ESP performs its task about ten times faster.

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Results:
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1 **Hybrid population-based metaheuristic approaches for the space allocation problem**
Burke, E.K.; Cowling, P.; Landa Silva, J.D.
Evolutionary Computation, 2001. Proceedings of the 2001 Congress on , Volume: 1 , 2001
Page(s): 232 -239 vol. 1

[Abstract] [PDF Full-Text (692 KB)] **CNF**

2 **A new mutation operator and its application**
Zhang Chukkai; Li Yu; Shao Huihe
Intelligent Control and Automation, 2000. Proceedings of the 3rd World Congress on , Volume: 1 , 2000
Page(s): 634 -636 vol.1

[Abstract] [PDF Full-Text (256 KB)] **CNF**

3 **Recent trends of meta-heuristics applications in power systems**
Mori, H.
Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. 1999 IEEE International Conference on , Volume: 6 , 1999
Page(s): 492 -496 vol.6

[Abstract] [PDF Full-Text (324 KB)] **CNF**

4 **The evolution of size in variable length representations**
Langdon, W.B.
Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computational Intelligence., The 1998 IEEE International Conference on , 1998
Page(s): 633 -638

[Abstract] [PDF Full-Text (572 KB)] **CNF**

5 **Genetic algorithms and simulated annealing for robustness analysis**
Zhu, X.; Huang, Y.; Doyle, J.
American Control Conference, 1997. Proceedings of the 1997 , Volume: 6 , 1997
Page(s): 3756 -3760 vol.6

[Abstract] [PDF Full-Text (584 KB)] **CNF**

6 **A framework for automated software partitioning and mapping for distributed multiprocessors**
Ramanujan, R.S.; Bonney, J.C.; Thurber, K.J.; Jha, R.; Siegel, H.J.
Parallel Architectures, Algorithms, and Networks, 1996. Proceedings., Second International Symposium on , 1996
Page(s): 138 -145

[Abstract] [PDF Full-Text (716 KB)] **CNF**

7 **Hybridized crossover-based search techniques for program discovery**
O'Reilly, U.-M.; Oppacher, F.
Evolutionary Computation, 1995., IEEE International Conference on , Volume: 2 , 1995
Page(s): 573 -578 vol.2

[Abstract] [PDF Full-Text (520 KB)] **CNF**

8 **Relational matching with stochastic optimisation**
Cross, A.D.J.; Hancock, E.R.
Computer Vision, 1995. Proceedings., International Symposium on , 1995
Page(s): 365 -370

[Abstract] [PDF Full-Text (544 KB)] **CNF**

9 **Genetic algorithms and simulated annealing: a marriage proposal**
Adler, D.
Neural Networks, 1993., IEEE International Conference on , 1993
Page(s): 1104 -1109 vol.2

[Abstract] [PDF Full-Text (516 KB)] **CNF**

10 **Hill-climbing, simulated annealing and genetic algorithms: a comparative study and application to the mapping problem**
Talbi, E.-G.; Muntean, T.
System Sciences, 1993, Proceeding of the Twenty-Sixth Hawaii International Conference on , Volume: ii , 1993
Page(s): 565 -573 vol.2

[Abstract] [PDF Full-Text (596 KB)] **CNF**

11 **Bit-string optimization in a brachytherapy dosimetry problem**
Chakraborty, U.K.; Dastidar, D.G.
TENCON '92. "Technology Enabling Tomorrow : Computers, Communications and Automation towards the 21st Century.' 1992 IEEE Region 10 International Conference. , 1992
Page(s): 433 -437 vol.1

[Abstract] [PDF Full-Text (212 KB)] **CNF**

12 **MAP estimation in image restoration by a local search enhanced genetic algorithm**
Hu, Y.; Dennis, T.J.
Digital Processing of Signals in Communications, 1991., Sixth International Conference on , 1991
Page(s): 123 -128

[Abstract] [PDF Full-Text (436 KB)] **CNF**

13 **A new and efficient partitioning algorithm: genetic partitioning**
Jin, L.-M.; Chan, S.-P.
Circuits and Systems, 1991., Proceedings of the 34th Midwest Symposium on , 1992
Page(s): 712 -715 vol.2

[Abstract] [PDF Full-Text (244 KB)] **CNF**

Genetic algorithms and simulated annealing for robustness analysis

Zhu, X. Huang, Y. Doyle, J.
California Inst. of Technol., Pasadena, CA, USA

This paper appears in: **American Control Conference, 1997. Proceedings of the 1997**
On page(s): 3756 - 3760 vol.6
4-6 June 1997
Albuquerque, NM, USA
1997
Volume: 6
ISBN: 0-7803-3832-4
IEEE Catalog Number: 97CH36041
Number of Pages: 6 vol. (lix+xi+xvii+xii+xvii+xii+3994)
References Cited: 7
INSPEC Accession Number: 6034362

Abstract:
Genetic algorithms (GAs) and simulated annealing (SA) have been promoted as useful, general tools for nonlinear optimization. This paper explores their use in robustness analysis with real parameter variations, a known NP hard problem which would appear to be ideally suited to demonstrate the power of GAs and SA. Numerical experiment results show convincingly that they turn out to be poorer than existing branch and bound (B) approaches. While this may appear to shed doubt on some of the hype surrounding these stochastic optimization techniques, we find that they do have attractive features, which are also demonstrated in this study. For example, both GAs and SA are almost trivial to understand and program, so they require essentially no expertise, in sharp contrast to the B methods. They may be suitable for problems where programming effort is much more important than running time or the quality of the answer. Robustness analysis for engineering problems is not the best candidate in this respect, but it does provide an interesting test case for the evaluation of GAs and SA. A simple hill climbing algorithm is also studied for comparison.

Index Terms:
genetic algorithms; *simulated annealing*; *computational complexity*; *robust control*; *control system analysis*; *robustness analysis*; *nonlinear optimization*; *branch and bound*; *engineering problems*; *hill climbing algorithm*